



## Returnable Transport Items RFID Solutions





# Optimize asset investment and maximize control with RFID and Bluetooth® Low Energy (LE) tags



It is not “out of sight, out of mind” for companies involved in returnable transport items. Once a valuable container leaves your site, you want to track it carefully in order to recover your asset and ensure your container investment aligns with current and future demand. HID’s RFID tags can provide economical visibility to your assets. The read/write capability embedded in our tags accommodates the growing memory needs of your business, giving you the information you need and enabling stored data to improve your reusable asset management. As a key part of systems for operations management improvement, RFID tags can ensure the safe transport and return of your kegs, gas bottles and other containers, giving you greater operational efficiency.

## **ENSURE SEAMLESS TRACEABILITY.**

RFID tags by HID make returnable transport items easy to monitor and trace from beginning to end, a factor of extreme importance when you are dealing with large quantities of items. If problems occur along the supply chain, RFID tags provide a quick resolution to tracking and security issues. They are fully readable while attached to containers, even in a metallic environment or in bulk consignments on trucks or semi-trailers. Better tracking and inventory control of your assets helps eliminate loss and helps you maximize your return on investment.

## **SAVE TIME AND MONEY.**

RFID tags save you time and money in several ways. They provide information to help you analyze the lifecycle of your assets. This information leads to better decisions about how long an item can remain in useful life. HID tags are durable, operating without maintenance for up to 20 years, regardless of their environment. They stand up to the most demanding applications, including extreme temperatures, harsh chemicals, metal environments, rough handling as well as rigorous cleaning. You can read and record hundreds of tags instantly with our multi-read capability, even through packing materials or in close proximity.

The incorporation of anti-collision capabilities keeps radio waves from one tag from interfering with another, enabling a single reader to read more than one tag at a time.

This speeds the tracking process, saving you time while maintaining high levels of accuracy.

**CONSIDER HID YOUR SOLUTION PROVIDER.**

HID understands your requirements and expectations, and we will work with you to provide the best solutions for your returnable transport item needs. Our strength is our technical expertise and our extensive experience with custom projects. We know what works and what doesn't. We know how to choose the right tag for your unique applications, giving you a head start implementing your RFID solution.

We work closely with system integrators around the world to develop products and protocols that meet your most stringent demands. We are proud to deliver the products you need with exceptional quality and service.



HID's RFID Returnable Transport products allow owners to track and trace reusable items such as gas bottles. Life of service as well as inventory can be tracked.



HID BEEKS™ Bluetooth® Low-Energy sensor beacons allow cold chain and condition monitoring of critical goods or equipment.

**REDUCE LOSSES AND HUMAN HANDLING ERRORS.**

Some returnable transport items may sit for weeks before being emptied or returned, making them ideal candidates for theft or damage. RFID tags can identify where these issues may occur and help to resolve them when they do. In addition, the more locations a container visits, the more chances it will encounter errors caused by human usage. RFID tags minimize the need for manual tracking. Furthermore, tamper evident Seal Tags ensure industrial containers or bags remained unopened while transported or stored.

**ENHANCE STOCK MANAGEMENT.**

Through the use of system integrator software programs, information contained in the tag can actually help you determine how many containers you need to serve your customers. The ability to store vast amounts of information provides for greater business efficiency. HID has many working partnerships with original equipment manufacturers, and we can find just the right integrator to help you maximize the use of your tags.

**ADHERE TO ISO 17364 REQUIREMENTS.**

ISO 17364:2009 outlines the RFID requirements for returnable transport items used in a supply chain. These include specifications for the item's identification, including semantics and data syntax to be used. It also specifies the data protocol to be used to interface with business applications and the RFID system, minimum performance requirements and the air interface standards between the radio frequency interrogator and tag. HID ensures that the tags used for your returnable transport items meet or exceed related standards.

**CHOOSE FROM A VARIETY OF READERS.**

HID provides a selection of optimized handheld readers and reader boards to communicate with tag products. Our cost-effective readers are highly interoperable, quick and secure, with embedded applications featuring electronics for independent processing and increased productivity and safety.



Product Name	EXO Tag	EXO Keg Tag	SlimFlex Tag	Seal Tag	TSL 2166
Application	Chemical resistant tag for all applications in logistics (pallet and container tracking), high-value assets and railroad applications where long distance reading performance is required	Very robust transponders for curved metallic returnable transport items such as beer kegs, cylinders or gas bottles	Bendable robust tags for long-range non-metallic outdoor applications like pallets or pipes	Tamper evident, flexible and robust tag with built-in cable tie to efficiently seal industrial bags or containers	Handheld RFID readers for rugged environments support mobile inventory and maintenance use cases
Frequency	860 - 960 MHz (Global)	860-960 MHz (Global)	13.56 MHz, 860 - 960 MHz (Global)	13.56 MHz, 860 - 960 MHz (Global)	860 - 960 MHz (Global)
Read Range	Up to 108.2 ft (33m)	Up to 32.8 ft (10m)	Up to 19.7 ft (6m)	Up to 32.8 ft (10m)	

**RETURNABLE TRANSPORT PRODUCT SELECTION GUIDE**

As a leading identification technology supplier, HID offers a broad range of secure contactless transponders and reader products. Choose from a host of memory sizes—64-bit to 16-kbit—and read-only or read-write capabilities. Our secure contactless technology is available in LF (125/134.2 kHz), HF/NFC (13.56 MHz), Bluetooth® Low-Energy and RAIN® RFID UHF from 860 to 960 MHz, allowing worldwide use without reduction of performance.



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